9.

(Cancelled)

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AMENDMENTS TO THE CLAIMS

	1.	(Cancelled)
	2.	(Cancelled)
	3.	(Cancelled)
	4.	(Cancelled)
	5.	(Cancelled)
() i	6.	(Cancelled)
	7.	(Currently Amended) The composition according to claim 19 6 wherein said
glycosa	minog	dycan is selected from the group consisting of hyaluronic acid, heparin, heparin
sulfate,	low	molecular weight heparin, dermatan sulfate, chondroitin sulfate, polysulfatec
glycosa	minog	glycan, keratan sulfate, salts thereof and derivatives thereof.
;	8.	(Cancelled)

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10. (Cancelled)

- 11. (Currently Amended) The composition according to claim 19, wherein said
- 12. (Previously Presented) The composition according to claim 11, wherein said molecular weight ranges further comprise at least one fraction from 1,000 to less than 50,000 daltons, or from 100,000 to 300,000 daltons.

13. (Cancelled)

14. (Currently Amended) The composition according to claim 19 44, wherein said complex esthebydrates glycosaminoglycans range from two different size polymers of the same complex earbolist drates glycosaminoglycan.

15 - 18. (Cancelled)

19. (Currently Amended) A composition which comprises: a pharmacologically effective amount of at least one orally ingestable or mucosally absorbable complex carbohydrate selected from the group consisting of oligosaccharides, sinkylated oligosaccharides, polysaccharides, and glycosaminoglycans, glycosaminoglycan, wherein said complex carbohydrate glycosaminoglycan comprises at least one fraction having a molecular weight in

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the range of greater than 1,000,000 daltons, wherein said complex earbohydrate will course on

inflammatory response when injected into out montry eyes but will not cause an adverse

reaction when applied to the skin of mammals or when delivered arally or muoncally to

mammals, with the proviso that said composition does not contain an essential oil as an active

ingredient, and wherein the complex carbohydrate contains up to 5% by weight protein

contaminants, and

a carrier selected from the group consisting of a drink, a drink mix, a food, a candy, a

mouthwash, a toothpaste, a gargle, a vaporizer liquid, a gum, a lozenge, an ingestable gel, an

ingestable foam, an ingestable capsule, a tablet, an ingestable tablet, an ingestable dissolvable

tablet, a suppository, and an ingestable nutritional supplement, with the proviso that when

chondroitin sulfate is used as the sole glycosoaminoglycan, the carrier is not a capsule or an

ingestable tablet.

20 - 21. (Cancelled)

22. (Currently Amended) A composition which comprises, as an active ingredient, a

pharmacologically effective amount of at least one orally ingestable or mucosally absorbable

complex carbohydrate selected from the group consisting of a mixture of molecular weight

ranges of hyalur-min-soid glycosaminoglycans, wherein said molecular weight ranges comprise

at least one fraction greater than 1,000,000 daltons, wherein said complex carbohydrate will

cause an inflammatory response when injected into owl mankey eyes but will not cause an

adverse reaction when applied to the skin of mammals or when delivered orally or musically to

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monorable, and wherein the complex carbohydrate contains up to 5% by weight protein

contaminants, and

a carrier selected from the group consisting of a drink, a drink mix, a food, a candy, a

mouthwash, a toothpaste, a gargle, a vaporizer liquid, a gum, a lozenge, an ingestable gel, an

ingestable foam, an ingestable capsule, a tablet, an ingestable tablet, an ingestable dissolvable

tablet, a suppository, and an ingestable nutritional supplement.

23. (Currently Amended) A composition which comprises as an active ingredient a

pharmacologically effective amount of at least one orally ingestable or mucosally absorbable

complex embahydrate selected from the group consisting of oligosaccharides siabylated

oligosaecharides, polysaecharides and glycosaminoglycans; glycosaminoglycan, wherein said

complex earbohydrores glycosaminoglycan comprises at least one fraction having a molecular

weight in the range of greater than 1,000,000 daltons, wherein said complex carboty-drates

glycosaminoglycan will cause an inflammatory response when injected into owl monkey eyes

but will not cause an adverse reaction when applied to the skin of mammals or when delivered

orally or mucosally to mammals, and wherein the employ-earbohydrates glycosaminoglycan

contains up to 5% by weight protein contaminants, and

a carrier selected from the group consisting of a drink, a drink mix, a food, a candy, a

mouthwash, a toothpaste, a gargle, a vaporizer liquid, a gum, a lozenge, an ingestable gel, an

ingestable foam, an ingestable capsule, a tablet, an ingestable tablet, an ingestable dissolvable

tablet, a suppository, and an ingestable nutritional supplement, with the proviso that when

chondroitin sulfate is used as the sole glycosoaminoglycan, the carrier is not a capsule or an

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ingestable tablet.

24. (Withdrawn) A method of treatment of inflammation, pain or itching which

comprises orally or mucosally administering to a mammal the composition of claim 19.

25. (Withdrawn) The method of claim 24, wherein said application is made orally.

26. (Withdrawn) The method of claim 24, wherein said oral or mucosal application

form is selected from the group consisting of a liquid, an emulsion, a suspension, a cream, an

ointment, a gel, a foam, a solid, a powder and a gum,

27. (Withdrawn - Currently Amended) The method of claim 24, wherein said

inflammation, pain or itching results from arthritis, bursitis, athletic injuries, tendonitis, trauma,

gastritis, colitis, esophagitis, bronchitis, sore throat, tonsilitis, tendonitis, fibromyalgia, TMJ,

dental pain, bruising, poor circulation, muscle cramps, tired feet, allergies, poison ivv, insect

bites/stings, asthma, anaphylaxis, surgery, childbirth, sunburn, burns, edema related to diabetes,

decubitus ulcers, superficial cuts and scrapes, open wounds, dry skin, psoriasis. Attention Deficit

Hyperactivity Disorder (ADHD), plaque formation associated with heart disease and stroke.

increased degradation of spinal nerves post spinal cord injury, adhesion formation post surgery.

scar formation post surgery, wound healing, ganglion formation, Alzheimer's disease, HIV,

esseet wrinkles, and hair loss.

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28 - 29. (Cancelled)

30. (Withdrawn) A method of inhibiting the Adhesion cascade by orally or mucosally administering to a mammal the composition of claim 19.

31. (Cancelled)

32. (Withdrawn - Currently Amended) A method for preventing or treating inflammation, pain, tumor development and metastasis or allergy-related diseases and conditions which comprises or all or mucosally administering to a mammal the composition of claim 19.

33. (Withdrawn - Currently Amended) A method for preventing or treating inflammation, pain, termor development and metastasis or allergy-related diseases and conditions which comprises or ally administering to a mammal the composition of claim 19.

- 34. (Withdrawn Currently Amended) A method for preventing or treating inflammation, pain, tumor development and metastavis or allergy-related diseases and conditions which comprises mucosally administering to a mammal the composition of claim 19.
- 35. (Withdrawn Currently Amended) The method of Claims 33 or 34 wherein the inflammation, pain, tumor development and metastasis or allergy-related diseases and conditions are selected from the group consisting of arthritis, bursitis, athletic injuries, tendonitis, trauma.

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anaphylaxis, surgery, childbirth, gastritis, colitis, esophagitis, bronchitis, sore throat, tonsilitis,

tendonitis, fibromyalgia, TMJ, dental pain, bruising, poor circulation, muscle cramps, tired feet,

allergies, poison ivy, insect bites/stings, asthma, sunburn, burns, edema related to diabetes,

decubitus ulcers, superficial cuts and scrapes, open wounds, dry skin, psoriasis, Attention Deficit

Hyperactivity Disorder (ADHD), plaque formation associated with heart disease and stroke,

increased degradation of spinal nerves post spinal cord injury, adhesion formation post surgery,

scar formation post surgery, wound healing, ganglion formation, Alzheimer's disease, HIV,

essness, wrinkles, and hair loss.

36. (Currently Amended) The composition according to claim 19, wherein said at

least one complex carbohydrates glycosaminoglycan further comprises a fraction having a

molecular weight in the range of from 1,000 to less than 50,000 daltons.

37. (Currently Amended) The composition according to claim 19, wherein said at

least one complex cerbohydrate glycosaminoglycan further comprises a fraction having a

molecular weight in the range of from 100,000 to 300,000 daltons.

38 - 40. (Cancelled)

41. (Previously Presented) The composition according to claim 19, wherein the form

is selected from the group consisting of a liquid, an emulsion, a suspension, a solution, a cream, a

gel, a foam, a solid, a powder, a spray, a gum and an ointment.

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42. (Previously Presented) The composition according to claim 23, wherein the form is selected from the group consisting of a liquid, a gel, a solution, a suspension, an emulsion, an ointment, a cream, a solid, a powder, a gum and a spray.

43 - 45. (Cancelled)

46. (Previously Presented) The composition of claim 19, wherein said composition is a pain-relieving composition.

47. (Previously Presented) The composition of claim 19, wherein said composition is an orally delivered pain-relieving composition.

48. (Previously Presented) The composition of claim 19, wherein said composition is a mucosally delivered pain-relieving composition.

49. (Cancelled)

(Cancelled)

51. (Currently Amended) The composition of white claims 23 19 or 23, wherein the glycosaminoglycan complex earbohydrate contains less than 98% by weight hyaluronic acid.

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52. (Withdrawn) A method of treatment of inflammation, pain or allergy-related

diseases and conditions which comprises mucosally applying to a mammal the composition of

claim 19.

53. (Previously Presented) The composition of claim 19, wherein the active

ingredient is present in an amount of at least 0.01% wt/vol.

54. (Currently Amended) The composition of claim 19, wherein the active ingredient

is present in an amount of at least 196 wt/vol administered in repeated low doses between 0.0001

mg and 100 mg.

55 - 58. (Cancelled)

59. (Currently Amended) The composition of claim 23-19, wherein said at least one

eemplex carbohydrate glycosaminoglycan is of a low purity or cosmetic or food grade complex

earbishydrate and further comprises a fraction having a molecular weight in the range of from

1,000 to less than 50,000 or from 100,000 to 500,000.

60. (Cancelled)

61 - 62. (Cancelled)

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63. (Cancelled)

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64. (Cancelled)

65. (Cancelled)

66. (Currently Amended) The compositions according to claims 41 or 42, wherein the form of the composition is selected from the group consisting of drinks, drink mixes, foods, supplements, mouthwashes, toothpaste, gargle, the vaporizer liquid is a throat spray, vaporizers, the gam is a chewing gum or a dissolvable gum, the lozenge is throat lozenges, and the food is treats or treats, candy, capsules, tablets, dissolvable gum and suppositories.

- 67. (Cancelled)
- 68. (Cancelled)
- 69. (Previously Presented) The composition according to claim 19, wherein the complex-carbohydrate-glycosaminoglycan is a hyaluronic acid or salt or derivative thereof.
- (Currently Amended) An orally ingested or mucosally absorbed pharmaceutical composition selected from the group consisting of a drink, a drink mix, food, candy, mouthwash,

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toothpaste, gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule,

tablet, ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

supplement, which comprises as an active ingredient a pharmacologically effective amount of at

least one complex carbohydrate alycosaminoglycan selected from the aroun consisting of

oliverancharides, sintelated oliverancharides, polysacaharides, and alversaminoglycans, wherein

said at least one complex carbehydrate glycosaminoglycan comprises at least one fraction having

a molecular weight range greater than 1,000,000 daltons, wherein said complex carbohydrate

will cause an inflammatory response when injected into out mankey eyes but will not cause and

an adverse reaction when applied to the skin of reasonals or when delivered orally or interestly

to manimals, and wherein the complex earlichydrate contains up to 5% by weight protain

contaminants, wherein the glycosaminoglycan contains up to about 5% impurities, with the

proviso that said composition does not contain an essential oil as an active ingredient, with the

proviso that when chondroitin sulfate is used as the sole glycosoaminoglycan, the carrier is not a

capsule or an ingestable tablet.

71. (Cancelled)

72. (Currently Amended) The composition of claim 23-19, wherein said low purity

complex combulied alveosaminoglycan contains up to about 5% impurities, and will cause

reactions when injected into owl monkey eyes or joints of horses but will not cause reactions

when applied to the skin of mammals or when delivered orally or mucosally to mammals.

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73. (Currently Amended) An orally ingested or mucosally-absorbed pharmaceutical

composition selected from the group consisting of drink, drink mix, food, candy, mouthwash,

toothpaste, gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule,

tablet, ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

supplement, which comprises:

an effective amount of at least one complex carbohydrate glycosaminoglycan selected

from the group consisting of oligosaccharides, siabilated oligosaccharides, polysaccharides, and

physicaminostycens for treating inflammation, wherein said at least one complex corbohydrate

alycosaminoglycan comprises at least one fraction having a molecular weight range greater than

1,000,000 daltons, wherein said eomoles—carbohydrate glycosaminoglycan will cause an

inflammatory response when injected into owl monkey eyes but will not cause an adverse

reaction when applied to the skin of mammals or when delivered orally or mucosally to

mammals, and wherein the complex carbobydrate alveosaminoglycan contains up to 5% by

weight protein contaminants, with the proviso that said composition does not contain an essential

oil as an active ingredient,

wherein said orally ingested or mucosally-absorbed pharmaceutical composition is

selected from the group consisting of drink, drink mix, food, candy, mouthwash, toothpaste,

gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule, tablet,

ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

supplement, with the proviso that when chondroitin sulfate is used as the sole

glycosoaminoglycan, the carrier is not a capsule or an ingestable tablet.

- 74. (Previously Presented) Drink comprising the composition of claim 73.
- 75. (Previously Presented) Drink mix comprising the composition of claim 73.
- 76. (Previously Presented) Food comprising the composition of claim 73.
- 77. (Previously Presented) Candy comprising the composition of claim 73.
- 78. (Previously Presented) Mouthwash comprising the composition of claim 73.
- 79. (Previously Presented) Toothpaste comprising the composition of claim 73.
- 80. (Previously Presented) Gargle comprising the composition of claim 73.
- 81. (Previously Presented) Vaporizer comprising the composition of claim 73.
- 82. (Previously Presented) Gum comprising the composition of claim 73.
- 83. (Previously Presented) Lozenge comprising the composition of claim 73.
- 84. (Previously Presented) Ingestable gel comprising the composition of claim 73.

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(Previously Presented) Ingestable foam comprising the composition of claim 73.

86. (Previously Presented) Ingestable capsule comprising the composition of claim

73.

87. (Previously Presented) Tablet comprising the composition of claim 73.

88. (Previously Presented) Ingestable tablet comprising the composition of claim 73.

89. (Previously Presented) Ingestable dissolvable tablet comprising the composition

of claim 73.

90. (Previously Presented) Suppository comprising the composition of claim 73.

91. (Previously Presented) Ingestable nutritional supplement comprising the

composition of claim 73.

92. (Currently Amended) An orally ingested or mucosally absorbed pharmaceutical

composition selected from the group consisting of drink, drink mix, food, candy, mouthwash,

toothpaste, gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule,

tablet, ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

supplement, which comprises, as an active ingredient, a pharmacologically effective amount of

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at least one complex carbohydrate glycosaminoglycan selected from the group consisting of a

mixture of molecular weight ranges of hyaluronic acid, wherein said molecular weight ranges

comprise at least one fraction greater than 1,000,000 daltons, wherein said eomolex corbohydrate

glycosaminoglycan will cause an inflammatory response when injected into owl monkey eyes

but will not cause an adverse reaction when applied to the skin of mammals or when delivered

orally or mucosally to mammals, and wherein the complex early-hydrote glycosaminoelycan

contains up to 5% by weight protein contaminants, with the proviso that said composition does

not contain an essential oil as an active ingredient,

wherein said orally or mucosally-administered pharmaceutical composition is selected

from the group consisting of drink, drink mix, food, candy, mouthwash, toothpaste, gargle,

vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule, tablet, ingestable

tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional supplement, with the

proviso that when chondroitin sulfate is used as the sole glycosoaminoglycan, the carrier is not a

capsule or an ingestable tablet.

93. (Previously Presented) The composition of claim 92, wherein the hyaluronic acid

is in a total concentration of between 0.5% and 3.0% wt/vol.

94. (Currently Amended) An orally ingested or mucosally-absorbed pharmaceutical

composition selected from the group consisting of drink, drink mix, food, candy, mouthwash,

toothpaste, gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule,

tablet, ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

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supplement, which comprises as an active ingredient a pharmacologically effective amount of at

least one complex carbohydrate glycosaminoglycan selected from the aroun consisting of

oligoraccherides, sialylated oligoraccharides; polysaccharides and glycosaminoglycans, wherein

said complex—carbohydrate glycosaminoglycan comprises at least one fraction having a

molecular weight in the range of greater than 1,000,000 daltons, wherein said complex

earbohydrass glycosaminoglycan will cause an inflammatory response when injected into owl

monkey eyes but will not cause an adverse reaction when applied to the skin of mammals or

when delivered orally or mucosally to mammals, and wherein the complex carbohydrate

glycosaninoglycan contains up to 5% by weight protein contaminants, with the proviso that said

composition does not contain an essential oil as an active ingredient,

wherein said orally ingested or mucosally-absorbed pharmaceutical composition is

selected from the group consisting of drink, drink mix, food, candy, mouthwash, toothpaste,

gargle, vaporizer, gum, lozenge, ingestable gel, ingestable foam, ingestable capsule, tablet,

ingestable tablet, ingestable dissolvable tablet, suppository, and ingestable nutritional

supplement, with the proviso that when chondroitin sulfate is used as the sole

glycosoaminoglycan, the carrier is not a capsule or an ingestable tablet.

95. (Cancelled)

96. (Cancelled)

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(Withdrawn - Currently Amended) A method for relieving joint pain or other

discomforts associated with osteoarthritis in a mammal comprising the step of delivering to said

mammal by oral ingestion of a nutritional supplement consisting essentially of an effective

amount of hyaluronic acid, or a salt or digest thereof, and a food or drink carrier, wherein the

effective amount of hyaluronic acid, or a salt or digest thereof, is from about 0.0001 and to 100

mg. administered in repeat low doses of between 0,0001 mg and 100 mg.

98. (Withdrawn) The method of claim 97, further comprising the step of adding the

hyaluronic acid, or a salt or digest thereof, to the carrier, and wherein the carrier comprises food

or water.

(Withdrawn) The method of claim 97, wherein the nutritional supplement is

provided in capsule form.

100. (Withdrawn) The method of claim 97, wherein the mammal is a human, an

equine, a canine, or feline species.

101. (Withdrawn - Currently Assended) A method for reducing discomfort of

fibromyalgia in a person afflicted with fibromyalgia comprising the step of delivering to said

person by oral ingestion a nutritional supplement consisting essentially of an effective amount of

hyaluronic acid, or a salt or digest thereof, and a nutritionally acceptable carrier, wherein the

effective amount of hyaluronic acid, or a salt or digest thereof, is from about 0.0001 mg to 100

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me per dose, administered in repeated low doses of between 0.0001 mg and 100 mg.

102. (Withdrawn) The method of claim 101, further comprising the step of adding the

hyaluronic acid, or a salt or digest thereof, to the carrier, and wherein the carrier comprises food

or water.

103. (Withdrawn) The method of claim 101, wherein the nutritional supplement is

provided in capsule form.

104. (Withdrawn - Currently Amended) A method for relieving joint pain or other

discomforts associated with joint disorders in a mammal comprising the step of delivering to said

mammal by oral ingestion a nutritional supplement consisting essentially of an effective amount

of hyaluronic acid, or a salt or digest thereof, and a food or drink carrier, wherein the effective

amount of hyaluronic acid, or a salt or digest thereof, is administered in repeated low doses of

between from about 0.0001 mg to about 100 mg, per dose.

105. (Withdrawn) The method of claim 102, wherein the nutritional supplement is

provided in tablet form.

106. (Withdrawn) The method of claim 104, further comprising the step of adding the

hyaluronic acid, or a salt or digest thereof, to the carrier, and wherein the carrier comprises food

or water.

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107. (Withdrawn) The method of claim 104, wherein the nutritional supplement is

provided in capsule form.

108. (Withdrawn) The method of claim 104, wherein the mammal is a human, an

equine, a canine, or a feline species.

109. (Withdrawn) The method of claim 104, wherein the joint pain is the result of an

arthritic condition.

110. (Withdrawn) The method of claim 104, wherein the arthritic condition is

selected from the group consisting of osteoarthritis and rheumatoid arthritis.

111. (Withdrawn) The method of claim 104, wherein the joint pain is the result of an

inflammatory condition.

112. (Previously Presented) A nutritional supplement consisting essentially of an

nutritionally effective amount of hyaluronic acid, or a salt or digest thereof, and a food or drink

carrier, the nutritional supplement provided in an orally ingestible dosage form.

113. (Currently Amended) The nutritional supplement of claim 112, wherein the

effective amount of hyaluronic acid is administered in repeated low doses of between 0.0001 mg

te and 100 mg.

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114. (Previously Presented) The nutritional supplement of claim 112, wherein the

orally ingestible dosage form is a capsule or gel seal.

115. (Previously Presented) Food or treat for horse or dog comprising the composition

of claim 19.

116. (Withdrawn - Currently Amended) The method of claim 24, wherein said

complex carbohydrate glycosaminoglycans are administered in multiple low doses of between

0.0001 mg to and 100 mg, body-weight-

117. (Currently Amended) A composition comprising at least one orally digestable or

mucosally absorbable complex earliehydrate glycosaminoglycan selected from the group

convicting of oligosacchavides sint/Inted oligosaccharides, polysaccharides, and

glycosaminoglycans, wherein said complex-carbohydrate glycosaminoglycan comprises at least

one fraction having a molecular weight in the range of greater than 1,000,000 daltons, and

wherein unid complex carbohydrate will cause an inflammatory response when injected into owl

monkey eyes but will not couse an adverse reaction when annied to the skin of manmak or

when delivered orally or mucosally to mammals, and wherein the commits combinedrate

glycosaminoglycan contains up to 5% by weight protein contaminants, and wherein said at least

one complex corbativates alycosaminoglycum is mixed in a drink, a drink mix, a food, a candy,

a mouthwash, a toothpaste, a gargle, a vaporizer liquid, a gum, a lozenge, an ingestable gel, an

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ingestable foam, an ingestable capsule, an ingestable tablet, a chewable tablet, a dissolvable

tablet, and an ingestable nutritional supplement administered in repeated low doses of between

0,0001 and 100 mg so that they contain at least 0.00005mg of the complex carbohydrate

glycosaminoglycan, with the proviso that when chondroitin sulfate is used as the sole

glycosoaminoglycan, the carrier is not a capsule or an ingestable tablet.

118. (Previously Presented) The composition of claim 19, wherein said composition is

a topical, oral or mucosal composition.

119. (Currently Amended) A nutritional supplement consisting essentially of an

nutritionally effective amount of hyaluronic acid, or a salt or digest thereof, wherein said

hyaluronic acid comprises at least one fraction having a molecular weight in the range of greater

than 1,000,000 daltons, and wherein the complex carbohydrate hydronic acid contains up to

5% by weight protein contaminants, the nutritional supplement provided in an orally ingestible

dosage form, which is selected from the group consisting of a drink mix, a food, a candy, a gum,

a lozenge, an ingestable gel, an ingestable foam, an ingestable capsule, an ingestable tablet, a

chewable tablet, and a dissolvable tablet.

120. (Currently Amended) A composition which comprises a pharmacologically

effective amount of at least one orally ingestable or mucosally absorbable complex carbohydeste

stressaminglycan selected from the group consisting of clipasaccharides, cialylated

oligosaccharides, nolveaccharides, and elveosaminouly cans, wherein said complex earlieby draw

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glycosaminoglycan comprises at least one fraction having a molecular weight in the range of

greater than 1,000,000 daltons, wherein said complex carbohydrate will couse an inflammatory

response when injected into owl monkey even or joints of horses but will not purse an adverse

reaction when applied to the skip of managed or when delivered grally or mucosally to

mammals, and wherein the complex carbohydrate glycosaminoglycan contains up to 5% by

weight protein contaminants, with the proviso that said composition does not contain an essential

oil as an active ingredient, and a suitable carrier.

121. (Currently Amended) A nutritional supplement consisting essentially of a

pharmacologically effective amount of hyaluronic acid, or a salt or digest thereof, wherein said

hyaluronic acid comprises at least one fraction having a molecular weight in the range of greater

than 1,000,000 daltons, and wherein the complex carbohydrate hydruronic acid contains up to

5% by weight protein contaminants, the nutritional supplement provided in an orally ingestible

dosage form.

(Currently Amended) The composition of claim 19, wherein said complex

curbehydrate glycosuminoglycan are administered in repeated low doses of between present in

an amount of 0,0001 mg to 100 mg.

123. (Currently Amended) The composition of claim 70, wherein said complex

earbohydrate glycosaminoglycans are administered in repeated low doses of between present in

an area and 100 mg.

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124. (Previously Presented) The composition of claim 19, wherein the adverse

reaction is selected from at least one of the groups consisting of irritation, blistering and rash.

125. (Currently Amended): A nutritional supplement comprising hyaluronic acid, or a

salt or digest thereof, wherein said hyaluronic acid comprises at least one fraction having a

molecular weight in the range of greater than 1,000,000 daltons, wherein said salt, derivative or

digest of hyaluronic acid contains protein contaminants up to 5% by weight.

126. (Previously Presented) A composition which comprises an orally ingestable or

mucosally absorbable salt, derivative or digest of hyaluronic acid wherein said salt, derivative or

digest of hyaluronic acid comprises at least one fraction having a molecular weight in the range

of greater than 1,000,000 daltons, wherein said salt, derivative or digest of hyaluronic acid

contains protein contaminants up to 5% by weight, and wherein said salt, derivative or digest of

hyaluronic acid is nutritionally or pharmacologically effective.

127. (Currently Amended) The composition of claim 126, wherein the composition is

in the form of a drink, a drink mix, a food, a candy, a mouthwash, a toothpaste, a gargle, a

vaporizer liquid, a gum, a lozenge, an ingestable gel, a liquid, an ingestable foam, an ingestable

capsule, a tablet, an ingestable tablet, an ingestable dissolvable tablet, a suppository, and an

ingestable nutritional supplement, with the proviso that when chondroitin sulfate is used as the

sole glycosoaminoglycan, the carrier is not a capsule or an ingestable tablet.

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128. (New) A composition which comprises, as an active ingredient, a

pharmacologically effective amount of at least one orally ingestable or mucosally absorbable

mixture of molecular weight ranges of hyaluronic acid, wherein said molecular weight ranges

comprise at least one fraction greater than 1,000,000 daltons as measured using a protein

standard/intrinsic viscosity, and wherein the hyaluronic acid contains up to 5% by weight protein

contaminants, and

a carrier selected from the group consisting of a drink, a drink mix, a food, a candy, a

mouthwash, a toothpaste, a gargle, a vaporizer liquid, a gum, a lozenge, an ingestable gel, an

ingestable foam, an ingestable capsule, a tablet, an ingestable tablet, an ingestable dissolvable

tablet, a suppository, and an ingestable nutritional supplement,